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PHOTOGRAPHIC INTERPRETATION REPORT

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ECONOMIC RECONSTRUCTION IN BANGLADESH SINCE THE DECEMBER 1971 WAR

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ECONOMIC RECONSTRUCTION IN BANGLADESH SINCE THE DECEMBER 1971 WAR					
	ABSTRACT				
1. This report describes the efforts and progress made in Bangladesh to repair the country's war-damaged economic facilities, including road and rail lines of communication, shipping lanes, and airfields. Also included is a discussion of the Soviet salvage and minesweeping operations at Chittagong. A discussion, map, summary table, and selected photographs are included for each topic.					
	INTRODUCTION				
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	BASIC DESCRIPTION				
Overview					
3. Damage within Banglad civil disturbances which precede at the country. Damage resultin networks. Airfields were bombed Only the waterbone logistics rout	ed it. provided g from the war had its great d and many railroad and hig	d a second overall postwar test effect on the transporta ghway bridges were interdic	look 25X1 tion		
4. There are 18 airfields in but two of these have now been r and Table 1).					
5. Twenty-two major railro primary means of overland transhave been rapid. Fifteen of the 2 which have not been rebuilt, twelfidges are located at extreme posystem. The remaining bridge, disrupt cross-country rail traffic.	nsportation in Bangladesh, 2 destroyed bridges have be wo are being bypassed by a oints within the country and though located in north-	and repairs to the rail sys en rebuilt. Of the seven brid a rail-ferry system. Four of I have little effect on the over	tem dges the erall		
6. Twenty-six major and highway systems are secondary reflects this. Although repair was been completed. For the most pa	y to the railroads in impor as in evidence at many high	tance, and the repair actions way bridge sites, only four	vity		
7. The seaport at Chittagor Bangladesh. Chalna, a river por the country. Shipping at these war, due to the sinking of mer caused by Indian mining in the conduct salvage and minesweepi offer to clear Chalna. No effort least three ships were observed opened to western countries. He freighters were observed in the Mave been made since January Chittagong. Thirteen Soviet ship	rt, handles much of this tra ports was severely hamper rchant vessels in their hard Bay of Bengal. After the waing operations to clear these at salvage operations was of a partially submerged. Bid However, the river is navig- Mungla Anchorage. Repairs 1972. The Soviet presence	de for the southwestern pared, both before and during bors. Further disruptions war, the Soviet Union agree ports. It has since rescinded liscernible at Chalna, where to clear this port have bable at least to Chalna, as to the port facilities at Chawas very much in evidence.	rt of the were d to d its e at been s 11 alna e at		

operations in the Bay of Bengal

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8. Widespread damage occurred to civilian dwellings before and during the civil war. This damage was particularly extensive in Dacca, where more than 4,200 dwellings were

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destroyed. Many of these dwellings have since been reconstructed. This reconstruction activity was observed sporadically throughout the country. 9. Structural damage to the limited industrial and manufacturing facilities of Bangladesh appeared light. Major damage was discernible only at a thermal power plant, a machine tool plant, an ammunition load plant, and a jute mill. Damage at these plants has yet to be repaired. All other industrial facilities appeared essentially intact.	
10. The military installations, like the industries in Bangladesh, suffered little apparent damage. Again there was little observed effort to make repairs.	
Airfields	
11. Damage from bombing or shelling during the 1971 civil war was evident at 15 of 18 airfields in Bangladesh. The damage was confined mostly to the runways and therefore rendered the airfields unserviceable. The regularity of spacing of the craters at Shibanj, Lalmanir Hat, Shamsharnagar, and Feni indicated probable use of cratering charges. In addition, Feni Airfield appeared to have been damaged by cross-runway bulldozer cuts (Figures 2 and 3).	
12. By mid-February 1972 five of the damaged airfields had been repaired, including Dacca/Tezgaon, the country's principal airfield. the repair of all but two of the damaged airfields. Included among the repaired airfields was Dacca/Kurmitola, the capital's other major airfield (Figures 4 and 5). Only Shamshernagar and Kamrangir Char Airfields remain cratered and unserviceable (Figure 6). Three airfields, Sylhet, Tangail, and Rajshahi, were undamaged.	25X1
Railroads	
13. Railroad bridge destruction during the 1971 civil war virtually eliminated all through rail traffic in Bangladesh. Incomplete coverage in January and February 1972 revealed the interdiction of 20 bridges, 13 west of the Ganges and Jamuna Rivers and seven to the east.	
14. Probably the most important rail line in Bangladesh is the Dacca/Chittagong line. This line is the only rail link between the country's major seaport at Chittagong and Dacca, the capital. Five major bridges on this line were interdicted. At the time one of the bridges had been bypassed by a temporary bridge and repair efforts were underway at two others.	25X1
and two others in the previously unphotographed area of north-central Bangladesh. All but seven of these 22 bridges are now repaired, including four of the five on the vital Dacca/Chittagong line (Figure 7 and Table 2). The Fozilpur Railroad Bridge over the Muhari River is one of those repaired (Figures 8 and 9). The only bridge on this line not repaired was the Bhairab Bazar Railroad Bridge over the Maghna River (Figures 10 and 11). The dropped spans on this bridge had been removed and repair activity was apparent. The use of a rail-ferry system at this location completes the Dacca/Chittagong line. A similar rail-ferry system is in use at the still unrepaired Shra Railroad Bridge over the Ganges River. Repair of this bridge is nearly complete. No efforts to repair the remaining five rail bridges were observed. Four of these are located at extreme points within the country. The remaining Mymensing Railroad Bridge over Brahmaputra in north-central Bangladesh does not impede cross-country rail traffic (Figure 12).	25X1 25X1
Highways	
16. The already poor highway system in Bangladesh was disrupted by the interdiction of numerous bridges during the 1971 civil war. limited reconstruction of some major bridges which had been destroyed. Of the 12 destroyed major bridges observed four have been repaired (Figure 13 and Table 3). One of these is the Feni Highway Bridge over the Fenny River (Figures 14 and 15). After the bridge had been repaired, a temporary bridge was removed. Three of the remaining eight bridges were under repair and fords or ferrys were in use at most water crossings where the bridge	25X1 25X1

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remained unserviceable. The Dacca-Comilla Highway Bridge, which had two of its four spans destroyed, was still not repaired (Figures 16 and 17). The downed spans have been removed and a new ferry system is in service.	
17.	25X1
an additional 14 damaged major bridges were observed. A bridge near Satkhira is an example (Figure 18). The bridges had not been repaired and an alternate system of fords or ferrys was in use.	25 X 1
Ports and Harbors	
18. Ships sunk at Chalna and Chittagong before and during the civil war have hampered the use of these ports in Bangladesh (Figure 19). Navigation into the port of Chittagong was further disrupted by the use of mines in the Bay of Bengal.	
19. In March 1972 the Soviet Union agreed to clear these ports for Bangladesh. The clearing and salvage operation was initially expected to take about three months. In July, however, this estimate was changed to 18 months. The Soviets have since rescinded their offer to clear Chalna and are concentrating their efforts on Chittagong. Bids for the salvage operations in Chalna have been opened to Western countries, including the US.	
20. that the Soviets had	25 X 1
secured a portion of the quay at Chittagong Port. Soviet ships were docked at the quay and	
at least 100 men were standing in formation within the fence-secured area.	25X1
two VANYA (MSC), two Amur (AR), one Khobi (AOL), one Telnovsk (AKL), and one Mayak (SRTM) were docked at the quay (Figure 20). One Sura	25 X 1
(ALBD), one Okhtenskiy (ATR), one Nyryat II (YDT), one Atlant (ATA), and two	
additional Mayak (SRTM) were also in port. The Nyryat II and the Okhtenskiy were	
salvaging a sunken oiler (Figure 21).	
21. Twenty-two nautical miles southwest of Chittagong a Soviet minesweeping operation was underway in the Bay of Bengal. Six ships two Vanya (MSC) and four possible K-8 (MSB) were moving south in pairs. Each pair was towing a line with attached floats (Figure 22).	
22. Coverage of Chalna Port revealed no indications of salvage operations in Mungla Anchorage. The Pursur River is navigable, however, as 11 freighters were anchored.	
23. Much of the damage to the port facility has been repaired since January 1972. A large storage building, 15 warehouses, and approximately 200 civilian dwellings have been reconstructed (Figure 23).	
24. The US supertanker S.S. Manhattan was observed at anchor near Kutubdia Island, 25 nm south of Chittagong Harbor (Figure 24). The water depth at the harbor entrance is approximately 30 feet. Since the 1,005-foot vessel has a draft of 70 feet when loaded, it can not enter the port.	
25. Civilian housing in Bangladesh suffered widespread damage both during the civil war and the civil disturbances which preceded it. In Dacca alone more than 4,200 civilian dwellings were destroyed. At least 90 per cent of these dwellings in Dacca have been reconstructed (Figures 25-29). Similar reconstruction of civilian housing was observed sporadically throughout most of the country.	
Industries	
26. The industries in Bangladesh are numerous, but small and widely scattered. Primarily they consist of jute, flour and sugar mills, fertilizer and electric power plants, a	
cement plant, an ammunition loading plant, and a machine tool plant. External post war	
damage to these industries was light and no appreciable change in	25X1
status. A bombing run over the Jaydepur Machine Tool Plant caused damage to a large	
manufacturing building and a support building, (Figure 31). Two buildings in the inert components processing area of the adjacent Dacca Ammunition Loading Plant were also	
damaged (Figure 32). The Bheramara Thermal Power Plant Ganges Kobadak and a jute mill located at 23-49-25N 093-34-40E on the east bank of the Lakhya River received extensive structural damage. Little or no evidence of repair was discernible at any of these plants.	
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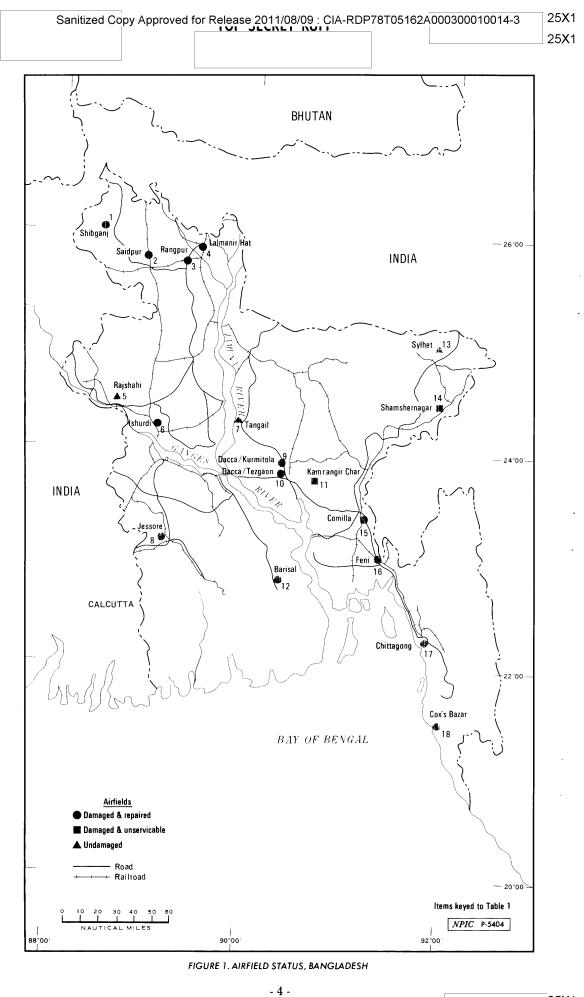
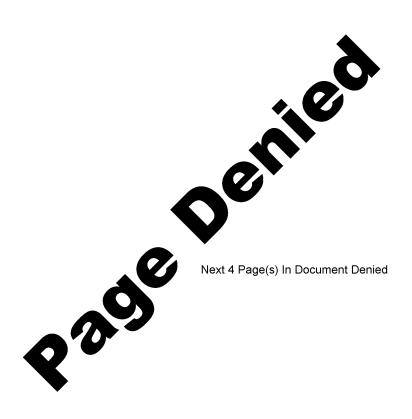


Table 1. Air Facilities (Items Keyed to Figure 1)

Name	Coordinates	Status	25 X 1
Dacca/Kurmitola (9)	23-50-20N 090-24-03E	Repaired and serviceable	
(see Figures 4 & 5)			
Dacca/Tezgaon (10)	23-46-45N 090-23-03E	Repaired and serviceable	
Jessore (8)	23-10-52N 089-09-50E	Repaired and serviceable	
Comilla (15)	23-26-15N 091-11-32E	Repaired and serviceable	
Sylhet (13)	24-57-30N 091-52-38E	Undamaged	
Shamshernagar (14)	24-23-40N 091-55-10E	14 craters on runway unserviceable	
Fen: (16) (see Figures 2 & 3)	23-02-05N 091-23-58E	Repaired and serviceable	
Shibganj (1)	26-01-00N 088-24-10E	Repaired and serviceable	
Lalmanir Hat (4)	25-53-20N 089-26-00E	Repaired and serviceable	
Rajshahi (5)	24-26-35N 088-37-07E	Undamaged	
Saidpur (2)	25-45-40N 088-54-30E	Repaired and serviceable	
Rangpur (3)	25-44-55N 089-14-15E	Repaired and serviceable	
Tangail (7)	24-13-35N 089-54-35E	Undamaged	
Ishurdi (6)	24-09-10N 089-03-10E	Repaired and serviceable	
Kamrangir Char (11) (see Figure 6)	23-47-30N 090-38-45E	6 bomb craters on runway - unserviceable	
Barisal (12)	22-47-48N 090-18-15E	Repaired and serviceable	
Chittagong (17)	22-15-27N 091-49-32E	Repaired and serviceable	
Cox's Bazar (18)	21-27-00N 091-58-05E	Repaired and serviceable	



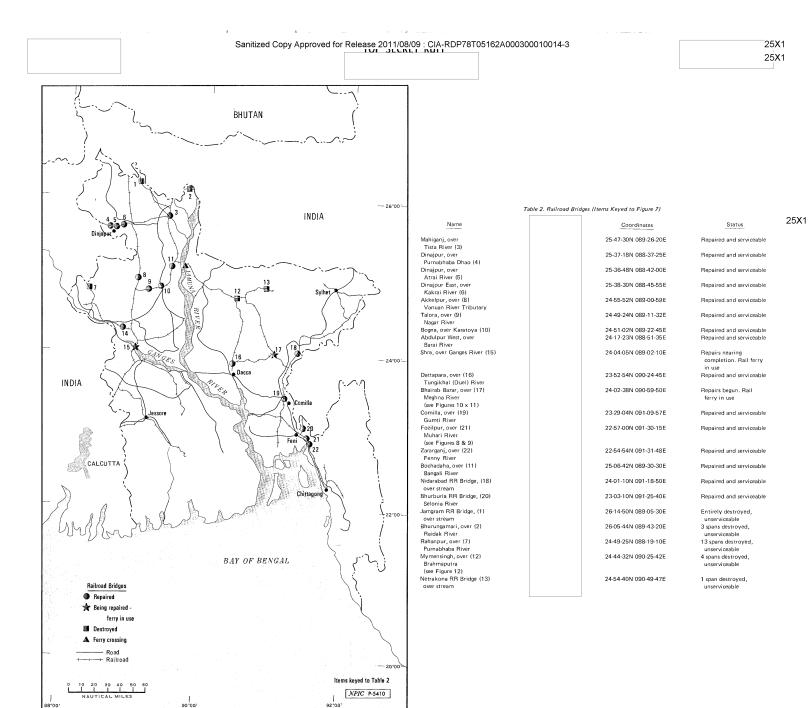
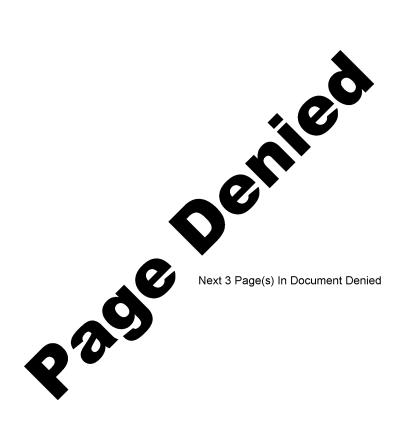
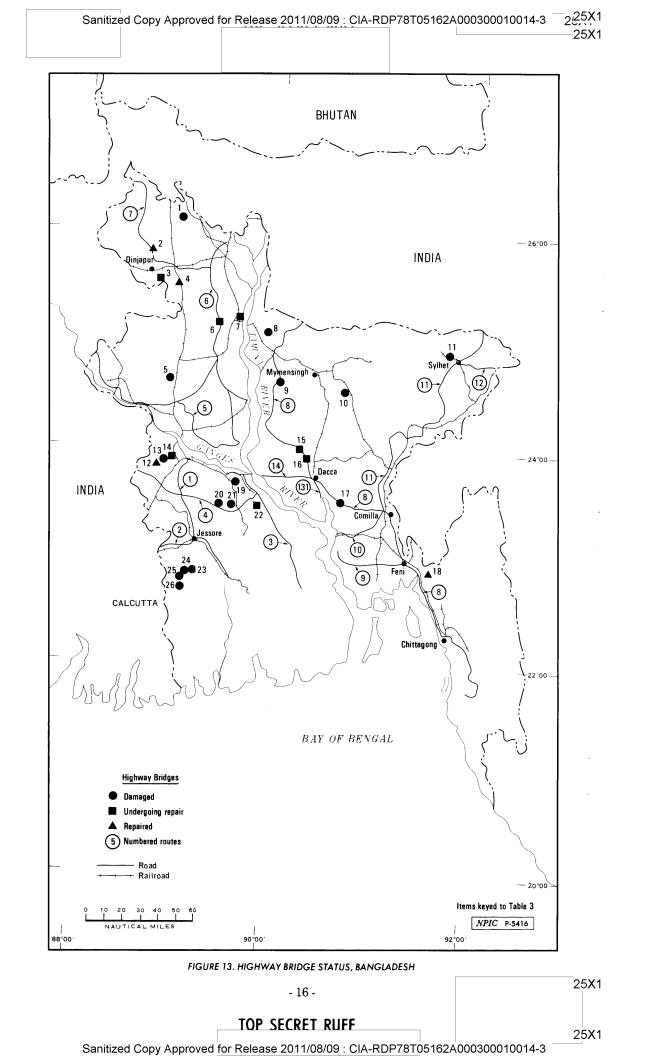


FIGURE 7. RAILROAD BRIDGE STATUS, BANGLADESH

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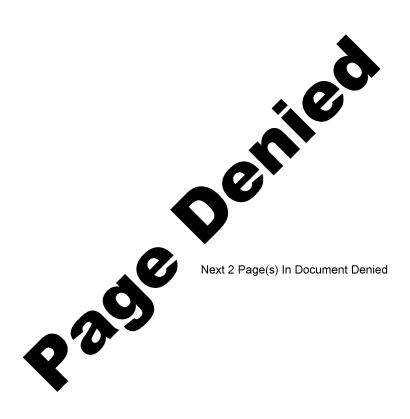
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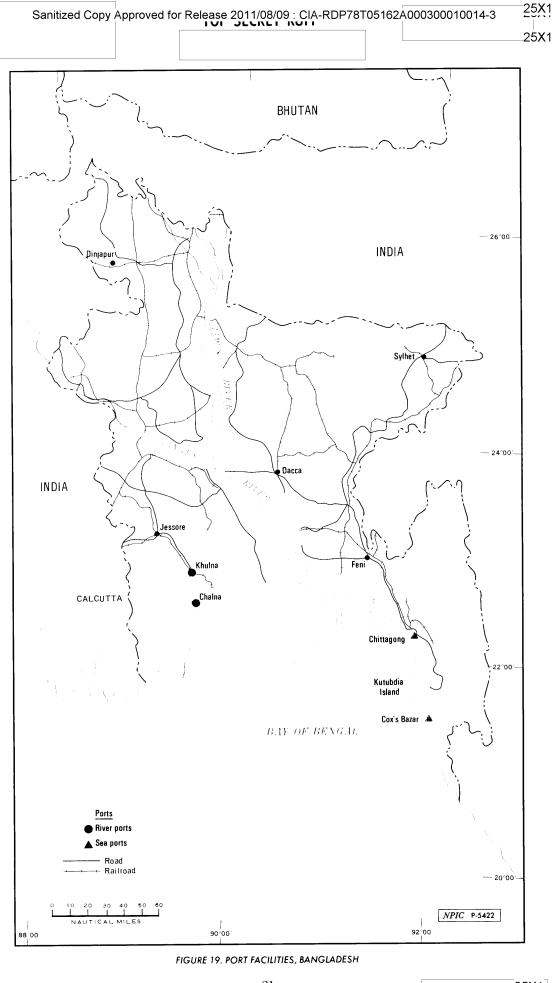
Table 3. Highway Bridges (Items Keyed to Figure 13)

	Tubic C. Trigittay Bridges (Items 10) on to Tiguro 10)	
Name	Coordinates	Status
Dinajpur, over (2) Dhao River	25-48-40N 088-40-50E	Repaired and serviceable, by-pass bridge removed
Dinajpur, over (3) Kakrai River	25-32-20N 088-45-50E	Bridge in late stage of construction
Phurbari, over (4)	25-30-00N 088-57-20E	Repaired and serviceable
Atrai, over Gur River (5)	24-36-40N 088-58-20E	Abutment damaged, bridge intact, bridge not in use
Kushtia-Meherpur (12)	23-52-15N 088-47-20E	Repaired and serviceable
Kushtia-Meherpur, (13) over Matabhanga River	23-53-40N 088-52-30E	3 spans destroyed, bridge unserviceable, ford and ferry in use
Kushtia-Meherpur (14)	23-54-20N 088-55-35E	Bridge in late stage of reconstruction
Comilla-Dacca (17) (see Figures 16 & 17)	23-35-10N 090-38-20E	Dropped spans removed. New ferry in use
Sylhet-Kandigaor (11)	24-54-35N 091-44-00E	5 spans removed or destroyed, unserviceable
Kasimpur Highway (16) Bridge North, over Turag River	23-59-35N 090-21-10E	2 spans destroyed, unserviceable. New bridge in final stage
,		of construction
Domar Highway Bridge (1) over Deonia Nadi	26-06-00N 088-46-40E	3 spans destroyed, unserviceable. Ford in use
Fenr Highway Bridge (18) over Fenny River	22-57-15N 091-33-05E	Repaired and serviceable, by-pass removed
(see Figures 14 & 15)	23-32-40N 089-51-30E	Circle despeed and
Faridpur Highway Bridge South (22)	25-32-4010 069-51-3015	Single dropped span replaced by temporary span, ferry also in use
Faridpur Highway Bridge West (19)	23-43-05N 089-36-20E	Six spans destroyed, unserviceable, ford flooded
Magura Highway Bridge (20)	23-30-00N 089-26-30E	Entire bridge is destroyed Temporary bridge south of original, two fords no longer used
Faridpur-Magura (21) Highway Bridge	23-31-50N 089-36-40E	Entire bridge destroyed. Four ferry crossings and a ford north of bridge site
Satkhira Highway (23) Bridge Northeast (see Figure 19)	22-45-00N 089-06-10E	One span destroyed, ferry in use
Satkhira Highway Bridge (24)	22-41-15N 089-02-40E	One span destroyed. By-pass bridge north of original
Satkhira Highway (25) Bridge Southwest	22-38-30N 088-59-25E	All 3 spans of bridge destroyed, foot bridge in use at site
Satkhira Highway (26) Bridge South-Southwest	22-35-00N 089-00-05E	All 5 spans destroyed, foot bridge in use at site
Rangpur-Bogra (6) Highway Bridge	25-10-15N 089-23-28E	Bridge in late stage reconstruction
Gaibanda Highway (7) Bridge South	25-14-25N 089-33-42E	Bridge under repairs
Mymensingh-Tangail (9) Highway Bridge	24-36-13N 090-01-15E	Bridge destroyed, by-pass bridge adjacent to it
Kalliakair Highway (8) Bridge West, over unknown stream	24-05-22N 090-09-10E	Bridge destroyed, by-pass bridge in final stage of construciton
Kishorganj Highway (10) Bridge North	24-31-50N 090-45-15E	Bridge destroyed, bypass in early stage of construction
Dacca Highway (15) Bridge Northeast	23-54-10N 090-14-00E	Bridge destroyed. Ferry in use. Repairing
		abutments

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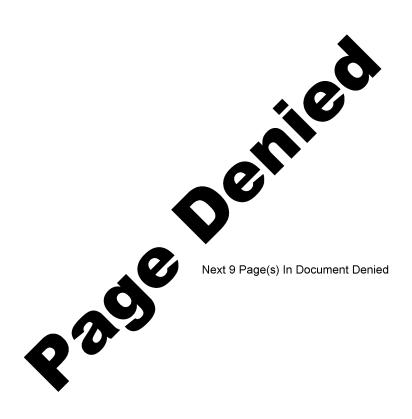
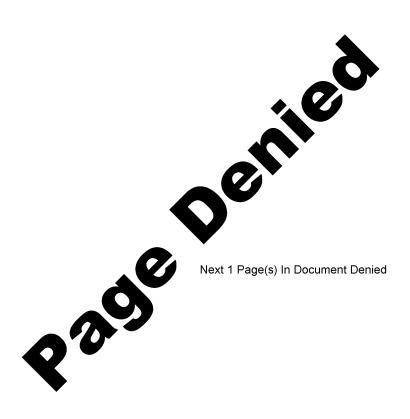


FIGURE 30. INDUSTRIAL STATUS, BANGLADESH

Table	e <u>4. Indu</u> stries (Items Keyed to Figure 30)		0EV4
Name	Coordinates	Status	25 X 1
Beheramara (1) Thermal Power Plant Ganges Kobadak	24-02-48N 089-02-00E	One large plant building badly damaged	
Jute Mill (2)	23-49-25N 093-34-40E	Four buildings badly damaged	
Dacca Ammunition Loading (3) Plant (see Figure 31)	23-53-15N 090-24-35E	Two buildings in inert componauts processing area damaged	
Jaydepur (4) Machine Tool Plant (see Figure 32)	23-52-50N 090-24-05E	One large manu- facturing building and one support building damaged	



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		REFERENCES	,	
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MAPS AND CHARTS				
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		7, scale 1:2,000,000		
REQUIREMENT				
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